(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 6 May 2005 (06.05.2005)

PCT

(10) International Publication Number WO 2005/039883 A1

(51) International Patent Classification7:

B41J 11/00

(21) International Application Number:

PCT/IL2004/000968

- (22) International Filing Date: 21 October 2004 (21.10.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 158571

23 October 2003 (23.10.2003) Π L

- (71) Applicant (for all designated States except US): NUR MACROPRINTERS LTD. [IL/IL]; 12 Abba Hillel Silver St., P.O.Box 1281, 71111 Lod (IL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): RODIN, Gregory [IL/IL]; 5/31 Pnina VeMoshe, 75357 Rishon Le Zion (IL).
- (74) Agent: REINHOLD COHN AND PARTNERS; P.O.B. 4060, 61040 Tel-Aviv (IL).

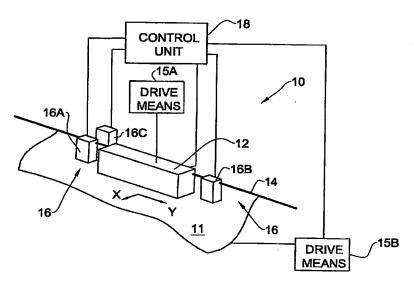
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL; IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DIGITAL INK JET PRINTING METHOD AND APPARATUS



(57) Abstract: A method and apparatus for a digital ink-jet printer are presented. A radiation-curable ink is continuously applied to successive locations on a substrate along a print line extending across the substrate. Concurrently with the continuous application of the radiation-curable ink along the print line, first curing radiation of a predetermined first intensity is continuously applied to the applied ink on the successive locations on the substrate along said print line, with a certain time delay, constant for all the locations on the substrate, between the applications of ink and the first curing radiation. Second curing radiation of a predetermined second intensity is applied to the locations on the substrate a certain time period, constant for all the locations on the substrate, after the application of the first curing radiation to said locations.

2005/039883 A1